

April, 2005

Rebuild Michigan



PARTNER NEWS

Rebuild Michigan, part of the U.S. Dept. of Energy's Rebuild America program, is designed to foster partnerships, which will promote increased energy efficiency and renewable energy use within communities. The program focuses on community-based energy planning to insure that local needs are met and that a sustained local effort is established.

Community partnerships develop comprehensive energy use strategies and organize a coalition to work towards fulfilling community energy goals. The partnerships identify energy efficiency opportunities in commercial, institutional, and multi-family buildings and encourage installation of improvements that will yield the highest energy and cost savings.

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COMMUNITY PARTNERSHIPS

Featured Community Partnership: Washtenaw County

In October 2004, construction began on \$6.1 million in improvements to 18 buildings under a contract with Chevron Energy Solutions, a Rebuild America business partner. The retrofits will improve 650,000 square feet of space and includes improvements in: lighting, windows, insulation, boilers, chillers, motors, fans, steam traps, and controls. Operational changes will be implemented, accompanied by staff training, and controls will be upgraded to a countywide system allowing setbacks and other economizing elements.

"I was really impressed with the client's willingness to look at all aspects of energy efficiency," said Bill Harper, business development manager at Chevron Energy Solutions. The work will be done over an 18-month period. Rebuild America encourages performance contracts, especially for governments and school systems, which often have trouble finding enough up front capital. Such public organizations also tend to be risk-averse, making the guaranteed savings of a performance contract more appealing. Under the Washtenaw contract, Chevron Energy Solutions will provide monitoring and verification for four years after the changes are implemented. Savings are guaranteed at \$215,755 a year during the period of monitoring and verification. Andrew Smith, the new energy coordinator for Washtenaw said, "This project is a large step forward for Washtenaw County and we plan on using it as a guide to make improvements to our remaining facilities as well as to educate the residents of Washtenaw County on the importance of energy efficiency." Way to go Washtenaw!

Michigan State University has submitted their final report reflecting program accomplishments including high residency participation in an energy awareness campaign that highlighted community energy conservation and the completion of many facility energy improvements such as lighting upgrades and timed controls. Traverse City Light and Power has also submitted their final 2nd year report outlining accomplishments including the completion of a comprehensive lighting retrofit and solar thermal installation. They have identified 14 energy efficiency projects with an annual cost savings of \$413,493 and \$758,388 in energy efficiency investments.

Rebuild Greater Lansing Area Schools led by Greater Lansing Renewable Energy Association and Rebuild Upper Michigan led by Bay De Noc Community college and M-TEC, are in the process of completing their final reports for 2nd year funding, evaluating energy activity impacts and developing energy objectives for next year. They will be highlighted in the next issue.

REBUILD MICHIGAN PARTNER UPDATE

Since January 2005 Rebuild Michigan (RM) has enrolled 25 new partners. The table to the right lists the most recent partners to the program, the square footage they have committed to energy improvements, and potential energy savings. To view the complete list of new clients please go to www.michigan.gov/eorebuild and click on Rebuild MI Energy Services. The Rebuild MI team completed Introductory Energy Evaluations for 16 clients identifying the areas where energy use can be reduced in facilities and if a technical energy analysis (TEA) is recommended. A technical energy analysis report was approved for Bay City Public Schools. The revised report recommends a \$3 million investment in energy efficiency improvements with a 7.88 year payback and \$400,000 in annual energy cost savings.

Since September, 2003, 86 school districts, local governments, and public housing authorities have become part of the RM program. Enrolled partners have pledged a total of 30,025,791 square feet to energy efficiency projects, with estimated annual cost savings of \$5,037,789 and estimated investment of \$35,449,451.

* These numbers were calculated on the Rebuild America website and may not reflect the actual annual energy savings available.

Name	Square Feet	*Potential Annual Energy Savings (MMBTU)
Rogers City Area Schools	159,550	3,191
Manistique Housing Commission	46,108	922
Dewitt Public Schools	586,487	11,730
Alma Public Schools	523,349	10,467
Imlay City Community Schools	363,981	7,280
City of Lincoln School District	641,045	12,821
City of Alpena	108,659	4,346
Montabella Community Schools	209,995	4,200

REBUILD OUTREACH

In February, staff engineer Brandy Minikey participated in a planning meeting with City of Warren officials to assess the possibility of adding a geothermal energy system to a new building design. Brandy provided technical information and suggestions on geothermal technology to attendees, as requested. The city has decided to include geothermal heating and cooling in the design of their new City Hall.

In March Rebuild Michigan staff Chelsea Hasenburg and Tim Shireman presented the Energy Smart Schools initiative and incentive opportunity to the 2005 Annual Michigan Science Teacher's Association Conference in Detroit. The presentation was given in conjunction with a workshop by the National Energy Educational Development Association (NEED) entitled, "Energizing Your Classroom", which featured many educational materials and kits available through Energy Smart Schools (see pg. 3).

On May 5th, Chelsea Hasenburg and Tim Shireman will present the Rebuild Michigan program to the National Association of Housing and Redevelopment Officials (NAHRO) during their annual conference in Port Huron, Michigan. There they will provide information about available Rebuild Michigan energy services to public housing authorities and invite them to become participants in the program.

OPPORTUNITY ANNOUNCEMENTS

Energy Smart Schools Update

Rebuild Michigan is sponsoring a statewide energy education initiative entitled EnergySmart Schools (ESS). The goal of this project is to promote energy efficiency through energy education and school-wide participation. Students grow to have a vested interest in energy reduction learning about energy in the classroom. They can take an active role in the school by performing energy audits or forming school-wide "energy patrols", for example. In addition to integrating an energy education curriculum, districts are encouraged to create extra curricular activities for the students, teachers, staff and/or community to supplement classroom instruction.

Laker Public Schools in Pigeon, MI and Fraser Public Schools in Fraser, MI are the first districts in Michigan to initiate ESS projects. In addition to energy curriculum, Fraser has developed an environmental club where high school students teach energy education lessons to elementary students. On April 23rd, Laker is hosted a district-wide "Embrace Your World" energy fair focusing on energy efficiency and renewable energy sources.

☆☆Energy Smart School Incentive 2005/2006☆☆

Rebuild MI is now offering an EnergySmart Schools incentive to eligible K-12 public school districts to start an energy education project during the 2005-2006 school year. The incentive will contribute from \$4,000-\$6,500 per district for faculty workshops and educational materials for the students. The incentives are awarded on a first-come first-serve basis. Eligible school districts should plan on initiating one or more energy education training sessions in the summer and begin integrating energy activities into the classroom during the fall semester 2005. To apply, your school district must enroll or be enrolled in the Rebuild Michigan program. More information is available online by going to www.michigan.gov/eorebuild and clicking on Michigan Energy Smart Schools. Applications must be submitted by 07/01/05.

REBUILD PUBLICATIONS

A Guide to Purchasing Green Power

Includes information about different types of green power products, and the benefits of green power purchasing. It was written as a cooperative effort of the U.S. EPA, Department of Energy, the World Resources Institute, and the Center for Resource Solutions. The guide was written for all organizations wanting to diversify their energy supply reduce the environmental impact of their electricity use. 50 pp.

Developing Community Based Energy-Efficiency Programs to Respond to Public Good Funds Solicitations

This report describes the process in which the city of Portland, Oregon developed a specific energy efficiency plan to maximize the use of their new incoming Public Benefit Funds. Described are efficiency project proposals, community partnerships, lessons learned and future expectations.

Educational Facilities: A Lighting Opportunity

There exists today a wide variety of lighting fixtures designed to address the many lighting needs of an educational facility. This guide is available to assist you in selecting fixtures that are energy efficient and meet the high performance and varied needs found in typical school settings. 16 pages

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ENERGY EVENTS

**Michigan 10th Annual
Sustainable Business
Conference and Expo
May 11-12, 2005**

Grand Rapids, MI

For more information go to:
www.wmsbf.org/conference

**Green Building Guidelines
Seminar**

May 28, 2005

Lansing Community College
MTEC Center, Delta Township
Lansing, MI

[www.SBICouncil.org/
workshops_gbg.html](http://www.SBICouncil.org/workshops_gbg.html)

**Greening the Heartland
2005: Cost, Practice, and
Policy**

June 1-3, 2005

Chicago, IL

www.greeningtheheartland.org

**Eco-Innovation 21:
Working Group on
Environmental
Performance Workshop**

June 20-22, 2005

Grand Rapids, MI
Contact: Mary Goodall
(517) 241-7968

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